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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/077,364	02/15/2002	John K. Savage	29178/38215	3674

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EXAMINER

NGUYEN, CUONG H

ART UNIT PAPER NUMBER

3661

DATE MAILED: 05/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/077,364	SAVAGE, JOHN K.	
	<b>Examiner</b>	<b>Art Unit</b>	
	CUONG H. NGUYEN	3661	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 2/14/06 (THE AMENDMENT).
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

***DETAILED ACTION***

1. This Office Action is the answer to the AMENDMENT received on 2/14/06.
2. Claims 1-22 are pending in this application.

***Response***

3. The Examiner respectfully submits that he maintains previous position in the Office Action with the combination of cited prior art of Cahlander et al. and Dietrich et al. because the argued subject matter is very well-known (e.g., on page 9, 1<sup>st</sup> para.

"Cahlander fails to disclose or suggest initiating cooking instructions in response to desired quantities of the selected food items at desired time intervals, as is recited in each of claims 1-22" – this subject matter is merely involved input commands according to different planned schedules/forecasting i.e., predicting food quantities, or predicting man-power and a time interval to finish a job). In responding to the amended phrase/limitation in independent claims 1, 7, and 14, the examiner respectfully submits that for a claimed system, the inclusion of a means – not disclose – for "counting"/"registering" un-used/wasted food is obvious; that merely a well-known "counting"/"registering" means for another usage; please note that there is no explanation of many "means" in the whole disclosure to enable one with ordinary skill in the art to practice this invention (otherwise, these "means" are admittedly well-known) – i.e., a waste food registration means is merely a subtraction performance (see Salvage, col.5 lines 1-2), there is no specific different meaning for "waste food registration means 42" in the disclosure – therefore, the above interpretation is proper.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**4. Claims 14-20, and 22 are rejected under 35 U.S.C. 103(a) as obvious over**

**Cahlander et al. (US Pat. 4,922,435), in view of Dietrich et al. (US Pat. 5,630,070).**

A. As to claim 14, Cahlander et al. teach about a system for predicting future food needs in Fig.27, comprising:

- a processor (see Cahlander, claim 83), programmed to determine cooking instructions for food items based on a selected relation between time of day, cooking times for the food items and desired quantities of food items at desired time intervals, and a selected relation between variable quantities of processed food items and the desired quantities of food items at the desired time interval (see Cahlander et al., the abstract);
- a memory coupled to the processor for storing information about food items, the information including desired quantities of food items at desired time intervals, cooking times for food items, and variable quantities of processed food items; and
- a user interface (i.e., a keyboard) operationally coupled to the processor and the memory and adapted to communicate cooking instructions for the food items to a monitor in response to a selected relation between time of day, the cooking times for the food items and the desired quantities of food items at desired time intervals, and a selected relation between the variable quantities of processed food items and the desired quantities of food items at desired time intervals (see Cahlander et al., Fig. 27, col.25 line 63 to col. 26 line 20, and col.27 lines 50-53).
- a 2<sup>nd</sup> user interface (i.e., another communication input) coupled to the processor and the memory to receive commands; and a clock/timer (these components are in Cahlander's system).

Cahlander issues cooking instructions based on anticipated rates/desired quantities – that means a desired quantity at a desired time is already taken into account, and Cahlander already practices of managing current inventory of items although this reference is silent about “to use a current inventory for a future need.”.

To use a current inventory for a future need, Dietrich et al. also rely on current inventory for a later run/production (see Dietrich et al., the abstract, and col.13 lines 50-53).

Cited arts also suggest a “means” – this invention’s specification does not particularly disclose (therefore, the examiner assumes this “means” is well known – for “counting”/“registering” un-used/wasted food; that merely a well-known “counting”/“registering” means (e.g., computer codes) for another usage; please note that required explicit explanation of many “means” in the whole disclosure to enable one with ordinary skill in the art to practice this invention is missing – i.e., the examiner respectfully submits that a waste food registration means is merely an inserted subtraction equation (in computer codes) between quantities.

It would have been obvious to one of ordinary skill in the art at the time of invention to implement Cahlander et al., with Dietrich et al.’s teaching to use a current inventory for a future need, because Dietrich et al. clearly suggest that an accurate quantity of product would be provided through a current inventory (stored inventory) about available items for sales.

B. As to claim 15, Cahlander et al. teach about a system for predicting future food needs in Fig.27, comprising:

- order receiving interface operationally coupled to the processor and the memory

(see Cahlander et al., Fig.1, ref. 623; and they clearly disclose: “operator input terminal 623 which includes a full function keyboard and a CRT display”), and adapted to receive orders for food items and update the information about food items including the variable quantities of processed food items.

C. As to claim 16, Cahlander et al. teach about a system for predicting future food needs in Fig.27, wherein the processor upon receiving an order for a selected number of a selected food item from the order receiving interface subtracts the selected number of the selected food item from the variable quantities of processed food items for the selected food item. Cahlander et al.’s claim 84 teach above features are inherent in Cahlander et al.’s system.

D. As to claims 17, and 18, Cahlander et al. teach about a system for predicting future food needs in Fig.27, wherein the user interface comprises an input device and an output device (see Cahlander et al., Fig.1, ref. 623; and they clearly disclose:” operator input terminal 623 which includes a full function keyboard and a CRT display”).

E. As to claim 19, Cahlander et al. teach about a system for predicting future food needs in Fig.27, wherein the processor initiates a cooking instruction for a selected food item to the user interface upon the current time of day being equal to or less than a time value in the desired quantities of food items at desired time intervals for the selected food item minus the cooking time for the selected food item. This was inherently taught in col.1 lines 15-20 wherein the food must be cooked under correct conditions for the proper time (please note that Cahlander et al.’s system uses timers combining with a processor for sensing time intervals; then making decisions to initiate further instructions).

F. As to claim 20, Cahlander et al. teach about a system for predicting future food needs in Fig.27, wherein the processor initiates a cooking instruction for a selected food item to the user interface upon the quantities of processed food items for the selected food item being less than a desired quantity of the selected food item in the desired quantities of food items at desired time intervals (see Cahlander et al., col.2 lines 40-41, col.4 lines 54-56, col.8 lines 51-68, col.26 lines 39-42, and col.28 lines 8-14 for using comparisons in initiating cooking instructions).

G. As to claim 22, Cahlander et al. teach about a system for predicting future food needs in Fig.27, wherein the information about food items further including a number of food items to be cooked (see Cahlander et al., the abstract lines 9-11).

5. **Claims 4, 11, and 21 are rejected under 35 U.S.C. 103(a) as obvious over Cahlander et al. (US Pat. 4,922,435), in view of Dietrich et al. (US Pat. 5,630,070).**

The rationales and references for above rejection of claim 14 are incorporated.

Cahlander et al. do not disclose that quantities of processed food items include a sum comprising quantities of processed food items on-hand and quantities of food items presently cooking.

However, Dietrich et al. teach a similar way of performing inventory that taking into account both in-process and raw products (see Dietrich et al., col.4 lines 16-31). The examiner submits that what the applicant claims is merely a current available food inventory - counting both on-hand and presently cooked food.

It would have been obvious to one of ordinary skill in the art to implement Cahlander et al., with Dietrich et al.'s teaching to suggest that quantities of processed food items include a sum comprising quantities of processed food items on-hand and

quantities of food items presently cooking, because these references suggest that an accurate quantity of products would be provided in an inventory about available items for sales.

**6. Claims 1-3, 5-10, and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art (see the original specification, page 2, lines 4-13), in view of Cahlander et al. (US Pat. 4,922,435), and in view of Dietrich et al. (US Pat. 5,630,070).**

A. In view of claims 1, and 7-8: Cahlander et al. check current inventory to a future plan (see Cahlander et al., col.1 lines 16-32 for a background that Cahlander et al. recognize and compare current inventory to future plan schedule to determine whether more food should be prepared. Cahlander et al. teach monitoring and responding to a select relationship of value compared to the table of cooking time to prepare intervals...". The examiner submits that Cahlander et al., Fig.41, col.2 lines 40-41, col.4 lines 54-56, col.8 lines 51-68, col.29 lines 8-14, and claim 72, suggest this idea.

The examiner submits that Cahlander et al.'s reference is within the field of the inventor's endeavor and this reference is reasonably pertinent to the particular problem (to predict (near) future food needs) with which is claimed by the applicant (see Cahlander et al. col.1 lines 40-42). In the background of the original specification (page 2, lines 4-13 of S.N. 08/863,000), the applicant admits that "...Systems have been designed, such as that shown in U.S. Patent No. 5,218,527, which instruct the cook when to commence the items of a selected order so that all the items are completed at a current inventory but is responsive to a select order of a customer. Hence, this system merely times when each item of a group of items should be commenced.



Cahlander et al. teach a fully automated system/computer system and method for cooking food products, said system can determining and transmitting cooking signals (instruction/time) for a selected food items, comprising:

- programmable memory (see Cahlander, claim 83);
- a cooking station monitor (see Cahlander, col. 26, lines 3-21);
- a quantity of processed selected food item stored on said programmable memory (see Cahlander, claim 87, and col.40, lines 49-51);

The examiner submits that Cahlander et al. teach the followings in Tables I-V :

- a table of desired quantities of the selected food items at desired time intervals relating to said table of selected food items, said table of desired quantities at desired time intervals being stored on said programmable memory; (see also Cahlander, col.40, lines 49-51 and claim 56);

- a table of cooking time to prepare intervals relating to said table of selected food items, said table of cooking time to prepare intervals being stored on said programmable memory (see also Cahlander, col.1, lines 18-32; col.2, lines 42-45; col.9, lines 25-34).

- a table of cooking time to prepare intervals relating to said table of selected food items, said table of cooking time to prepare intervals being stored on said programmable memory (see also Cahlander, col. 27, lines 50-53);

- control means for initiating a cooking instruction to said cooking station monitor in response to a selected relation between the current time and said table of desired quantities of the selected food items at desired time intervals and said table of cooking time to prepare intervals, and a selected relation between the variable quantity of selected

food items and said table of desired quantities of selected food items at desired time intervals (see also Cahlander, the abstract, and claim 93).

To use a current inventory for a future need, Dietrich et al. also rely on current inventory for a later run/production (see Dietrich et al., abstract, and col.13 lines 50-53).

Cited arts also suggest a “means” – this invention’s specification does not particularly disclose (therefore, the examiner assumes this “means” is well known – for “counting”/“registering” un-used/wasted food; that merely a well-known “counting”/“registering” means (e.g., computer codes) for another usage; please note that required explicit explanation of many “means” in the whole disclosure to enable one with ordinary skill in the art to practice this invention is missing – i.e., the examiner respectfully submits that a waste food registration means is merely an inserted subtraction equation (in computer codes) between quantities.

It would have been obvious to one of ordinary skill in the art at the time of invention to rely on Cahlander et al. and Dietrich et al. for setting up a computer system for determining and transmitting cooking instruction for selected food items at time intervals to supply needs of the selected food items; because they sufficiently teach similar components to perform management tasks for the benefit of serving/inventory food for future short-term and long-term schedules.

B. As to claims 2, and 9: Cahlander teaches a control means to:

- initiate cooking instructions to a cooking station according to planned intervals (see Cahlander, col.1 lines 17-19; and col.32 lines 41-45). This was inherently taught in col.1 lines 15-20 wherein the food must be cooked under correct conditions for the proper time

(please note that Cahlander et al.'s system uses timers combining with a processor for sensing time intervals; and making decisions to initiate cooking instructions).

C. As to claims 3, and 10, Cahlander et al. teach a control means to:

- establishes cooking instructions using ROBOT based on stored/inventory quantities of processed selected food items at desired time intervals (see Cahlander, Fig.41, Tables II-III, and col.1 lines 17-19).

D. As to claims 5, and 12, Cahlander et al. teach a pre-programmed cash register to automatically taking inventory ("...control means subtracts a number of selected food items manually entered upon said cash register from a variable quantity of selected food items stored in a memory") (see Cahlander, Fig.41 indicates that a communication link between POS and controller for real-time inventory, claims 84, and 112).

E. As to claims 6, and 13, Cahlander et al. teach different items to be cooked simultaneously (pre-programmed in memory and using a table of selected food items (see Cahlander, Table V, col.28 lines 43-49, and col.29 lines 1-7).

### ***Conclusion***

7. Claims 1-22 are not patentable because the submitted arguments are unpersuasive. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

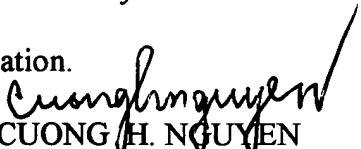
extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CUONG H. NGUYEN whose telephone number is 571-272-6759. The examiner can normally be reached on 9:30 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THOMAS G. BLACK can be reached on 571-272-6956. The Rightfax number for the organization where this application is assigned is 571-273-6759.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Please provide support, with page and line numbers, for any amended or new claim in an effort to help advance prosecution; otherwise any new claim language that is introduced in an amended or new claim may be considered as new matter, especially if the Application is a Jumbo Application.

  
CUONG H. NGUYEN  
Primary Examiner  
Art Unit 3661